



Vasopressin in vasodilatory shock: is the heart in danger?

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Auteur	Hauser, Balázs [1], Asfar, Pierre [2], Calzia, Enrico [3], Laporte, Régent [4], Georgieff, Michael [5], Radermacher, Peter [6]
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Résumé en anglais	<p>In patients with hyperdynamic hemodynamics, infusing arginine vasopressin (AVP) in advanced vasodilatory shock is usually accompanied by a decrease in cardiac output and in visceral organ blood flow. Depending on the infusion rate, this vasoconstriction also reduces coronary blood flow despite an increased coronary perfusion pressure. In a porcine model of transitory myocardial ischemia-induced left ventricular dysfunction, Müller and colleagues now report that the AVP-related coronary vaso-constriction may impede diastolic relaxation while systolic contraction remains unaffected. Although any AVP-induced myocardial ischemia undoubtedly is a crucial safety issue, these findings need to be discussed in the context of the model design, the dosing of AVP as well as the complex direct, afterload-independent and systemic, vasoconstriction-related effects on the heart.</p>
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